DLA L&M, in an effort to make sure all affected parties have access to this information, requested and obtained Amphenol Aerospace's permission on 09 May to post the following on our public website. Since this data was excerpted from GIDEP document NX4-P-09, we also requested and obtained the GIDEP Program Manager's permission to take this special and urgent action in accordance with GIDEP Distribution Policy.

1. TITLE *(Class, Function, Type, etc.)*

MIL-DTL-26500 Retention Testing

2. DOCUMENT NUMBER

NX4-P-16-03

3. DATE *(DD-MMM-YY)*

11-APR-16

4. MANUFACTURER AND ADDRESS

Amphenol Aerospace
40-60 Delaware Ave
Sidney, NY 13838

5. PART NUMBER

Not Available

6. NATIONAL STOCK NUMBER

Not Available

7. SPECIFICATION

MIL-DTL-26500

8. GOVERNMENT PART NUMBER

MS2761X / MS2426X

9. LOT DATE CODE START

1201

10. LOT DATE CODE END

1352

11. MANUFACTURER'S POINT OF CONTACT

Ron Williams

12. CAGE

77820

13. MANUFACTURER'S FAX

Not Available

14. MFR. POC PHONE

(607) 563-5344

15. MANUFACTURER'S E-MAIL

rwilliams@amphenol-aao.com

16. SUPPLIER - Not Applicable

17. SUPPLIER ADDRESS - Not Applicable

18. SUPPLIER CAGE - Not Applicable

19. PROBLEM DESCRIPTION / DISCUSSION / EFFECT

Amphenol Aerospace (AAO) is currently delinquent on MIL-DTL-26500 group C retention testing. AAO experienced low IR performance after 10 day humidity testing on stainless steel class K connectors. The results are attributed to the wires used for testing; please see page 2 for additional details.

20. ACTION TAKEN/PLANNED

DLA imposed a stop production and stop shipment on AAO relative to the subject MIL-Spec product for delinquent retention testing. In addition, DLA requested that AAO disclose an analysis of failures observed during current testing period. Upon resolution of open actions with DLA and the lifting of their imposed stop shipment/production order, AAO plans to resume production and shipment of the subject connectors.

21. DATE MFR. NOTIFIED/ SUPPLIER NOTIFIED - Not Applicable

22. MFR./SUPPLIER RESPONSE - Not Applicable

☐ **REPLY ATTACHED**

☐ **NO REPLY**

23. ORIGINATOR ADDRESS/POINT OF CONTACT

Ron Williams, Amphenol Aerospace
191 Delaware Ave
Sidney, NY 13838-1304
rwilliams@amphenol-aao.com (607) 563-5344

24. GIDEP REPRESENTATIVE

Kyle Christoffersen

25. SIGNATURE

Signature on File

26. DATE

11-APR-16

Block #19 Continued:

Failure Description

The low IR performance at the end of 10 day humidity testing was isolated to stainless steel class K connectors; all other classes tested experienced no issues. Two separate sets of class K hardware, one with wire approaching the maximum diameter and the other with wire approaching the minimum diameter were tested. Test samples 5P2 (MS27615K14T7P) and 5R2 (MS27613K14T7S) were wired with the minimum diameter wire, and were the samples not successful in meeting the 1000 MΩ minimum requirement. Retesting IR performance of the discrepant samples after allowing them to be evacuated of any residual moisture showed that full capabilities had been restored.

Test samples wired with maximum diameter wire successfully passed the test requirements. Additionally, MIL- DTL-26500 identifies specific wire specifications to be used in qualification efforts. Due to wire availability and timing to complete the testing, standard MS22759 wire was used to complete the Group C retention testing.

Path Forward

Product applications for class K connectors will typically be prepared using wire possessing capability for firewall exposure, which MS22759 does not. It is AAO's intent to replace the existing MS22759 wired contacts with new contacts using wire suited for firewall applications and re-test the samples. Based on these attributes, AAO believes there to be extremely low risk of functional impact for any product in the field.